AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remain(s) under examination in the application is presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1. (Currently Amended) A method comprising:

generating a compressed medical image from a source medical image at a first location using a lossy compression operation;

transmitting the compressed medical image to a remote view station at a second location for display;

decompressing the compressed image file at the remote view station;

selecting a region of the decompressed medical image at the second location;

~~and~~

at the first location, applying computerized image analysis operations to a region of the source medical image corresponding to the selected region of the decompressed medical image, the image analysis producing a non-image diagnostic result;

transmitting the non-image diagnostic result to the second location; and

receiving from the second location a medical diagnosis and associating the medical diagnosis with the source medical image at the first location.

2. (Previously Presented) The method of claim 1, wherein transmitting the compressed medical image includes transmitting the compressed medical image over a global packet-switched network.

3. (Previously Presented) The method of claim 1, further comprising:

transmitting region information separate from the compressed medical image from the remote view station to an image server at the first location, wherein the region information defines the selected region of the displayed medical image.

4. (Previously Presented) The method of claim 3, wherein the region information comprises pixel coordinates.

5. (Previously Presented) The method of claim 3, further comprising:

at the first location, receiving from the remote view station a request for improved resolution of the selected region;

determining image data to send to the remote view station to provide improved resolution of the selected region; and

sending said image data to the remote view station.

6. (Previously Presented) The method of claim 5, wherein said determining the image data comprises:

identifying pixel data in the source image corresponding to the selected region in the displayed medical image.

7. (Previously Presented) The method of claim 5, wherein said determining the image data comprises:

calculating image data lost in the lossy compression operation.

8. (Previously Presented) The method of claim 1, wherein the non-image diagnostic result comprises a score and said communicating comprises displaying the score at the remote view station.

9. (Currently Amended) A system comprising:

an image server at a first location to store a source medical image and to generate a compressed medical image from the source medical image using a lossy compression operation;

a remote view station at a second location communicatively coupled to the image server to receive the compressed medical image, said remote view station including

a decoder operative to decompress the compressed medical image to generate a decompressed medical image;

a display to display the decompressed medical image;

an input device to enable selection of a region of the decompressed medical image;

[[and]]

wherein the image server ~~is operative~~ programmed with an algorithm to perform an image analysis operation on a region of the source medical image that corresponds to a selected region of the decompressed medical image to produce a non-image diagnostic result; and

a database for associating the source medical image with a medical diagnosis generated using the non-image diagnostic result.

10. (Previously Presented) The system of claim 9, the remote view station is communicatively coupled to the image server via a global packet-switched network.

11. (Previously Presented) The system of claim 9, wherein the remote view station is operative to transmit region information separate from the compressed medical to the image server, wherein the region information defines the selected region of the decompressed medical image.

12. (Previously Presented) The system of claim 11, wherein the region information comprises pixel coordinates.

13. (Previously Presented) The system of claim 11, wherein the image server is operative to:

receive from the remote view station a request for improved resolution of the selected region;

determine image data to send to the remote view station to provide improved resolution of the selected region; and

send said image data to the remote view station.

14. (Previously Presented) The system of claim 13, wherein said determining the image data comprises:

identifying pixel data in the source image corresponding to the selected region in the displayed medical image.

15. (Previously Presented) The system of claim 13, wherein said determining the image data comprises:

calculating image data lost in the lossy compression operation.

16. (Previously Presented) The system of claim 9, wherein the non-image diagnostic result comprises a score.

17-25. (Cancel)

26. (Previously Presented) The method of claim 1, further comprising:

at the second location, selecting a type of image analysis to be performed on the selected region;

directing the image analysis to be performed on the selected region at the first location; and

communicating the non-image diagnostic result to the second location.

27. (Currently Ameded) The system of claim 9, further comprising:

a display at the remote viewing station to display the non-image diagnostic result; and

an input device to enable [[a]] the medical diagnosis to be entered~~, wherein the image server is operative to associate the medical diagnosis, communicated from the remote viewing station, with the source medical image at the first location~~.

28. (Previously Presented) The system of claim 9, further wherein the input device enables the selection of an image analysis operation to be performed on the decompressed medical image at the first location; and the image server is operative to communicate the non-image diagnostic result to the remote view station.

29-30. (Cancel)